

*Please provide the following information, and submit to the NOAA DM Plan Repository.*

**Reference to Master DM Plan (if applicable)**

*As stated in Section IV, Requirement 1.3, DM Plans may be hierarchical. If this DM Plan inherits provisions from a higher-level DM Plan already submitted to the Repository, then this more-specific Plan only needs to provide information that differs from what was provided in the Master DM Plan.*

URL of higher-level DM Plan (if any) as submitted to DM Plan Repository:

**1. General Description of Data to be Managed****1.1. Name of the Data, data collection Project, or data-producing Program:**

Submerged Aquatic Vegetation of Bogue Sound, North Carolina 1992 Biotic

**1.2. Summary description of the data:**

During 1992, 1:20,000 scale aerial photography for Bogue Sound, North Carolina was collected as part of an effort to map submerged aquatic vegetation (SAV) in Coastal North Carolina. The imagery was collected following a strict set of guidelines as detailed in NOAA Coastal Change Analysis Program (C-CAP): Guidance for Regional Implementation (NOAA Technical Report NMFS 123 1995; see Chapter 4 online at [www.coast.noaa.gov/crs/lca/methods.html](http://www.coast.noaa.gov/crs/lca/methods.html)). Photographs were taken at low tide and during times that the growth stage of the SAV allowed for clear identification. Care was taken to minimize the effects of turbidity, sun glint, wind, and haze on the photos. The imagery was scanned using a photogrammetric quality scanner (AGFA Horizon Plus) at a resolution of 600 dots per inch (dpi) resulting in a pixel resolution of 0.85 meters. Signature development took place during the summer of 2001. The images were orthorectified using ground control points selected from the state digital orthoquads and the National Imagery and Mapping Agency (NIMA) Digital Terrain Elevation Data (DTED(r)). The benthic data is classified according to the System for Classification of Habitats in Estuarine and Marine Environments (SCHEME). This system is fully described in "Development of a System for Classification of Habitats in Estuarine and Marine Environments (SCHEME) for Florida, Report to U.S. EPA - Gulf of Mexico Program, Florida Fish and Wildlife Conservation Commission, Florida Marine Research Institute. Review Draft 12/04/02." The images were interpreted and digitized on screen using ArcGIS 8.2 and labeled using ArcView 3.2 and the Benthic Habitat Digitizer extension (developed by the NOS Biogeography Program). The data have not been assessed for thematic accuracy due to the large disparity between dates of image acquisition in 1992 and interpretation in 2002. The data was assessed for horizontal spatial accuracy and thematic agreement during the fall of 2002.

Original contact information:

Contact Org: NOAA Office for Coastal Management

Phone: 843-740-1202

Email: coastal.info@noaa.gov

**1.3. Is this a one-time data collection, or an ongoing series of measurements?**

One-time data collection

**1.4. Actual or planned temporal coverage of the data:**

1992-05-04 to 1992-05-24

**1.5. Actual or planned geographic coverage of the data:**

W: -77.1686, E: -76.5522, N: 34.7821, S: 34.6384

**1.6. Type(s) of data:**

*(e.g., digital numeric data, imagery, photographs, video, audio, database, tabular data, etc.)*

Map (digital)

**1.7. Data collection method(s):**

*(e.g., satellite, airplane, unmanned aerial system, radar, weather station, moored buoy, research vessel, autonomous underwater vehicle, animal tagging, manual surveys, enforcement activities, numerical model, etc.)*

**1.8. If data are from a NOAA Observing System of Record, indicate name of system:**

**1.8.1. If data are from another observing system, please specify:**

**2. Point of Contact for this Data Management Plan (author or maintainer)**

**2.1. Name:**

NOAA Office for Coastal Management (NOAA/OCM)

**2.2. Title:**

Metadata Contact

**2.3. Affiliation or facility:**

NOAA Office for Coastal Management (NOAA/OCM)

**2.4. E-mail address:**

coastal.info@noaa.gov

**2.5. Phone number:**

(843) 740-1202

**3. Responsible Party for Data Management**

*Program Managers, or their designee, shall be responsible for assuring the proper management of the data produced by their Program. Please indicate the responsible party below.*

**3.1. Name:**

**3.2. Title:**

Data Steward

**4. Resources**

*Programs must identify resources within their own budget for managing the data they produce.*

**4.1. Have resources for management of these data been identified?****4.2. Approximate percentage of the budget for these data devoted to data management (specify percentage or "unknown"):****5. Data Lineage and Quality**

*NOAA has issued Information Quality Guidelines for ensuring and maximizing the quality, objectivity, utility, and integrity of information which it disseminates.*

**5.1. Processing workflow of the data from collection or acquisition to making it publicly accessible**

*(describe or provide URL of description):*

Process Steps:

- 2002-08-30 00:00:00 - The 1992 imagery for Bogue Sound, NC was acquired from the NOS MapFinder Web site (<http://mapfinder.nos.noaa.gov/>). Signature development took place during the summer of 2001. Field observations were used to help the interpreter recognize and identify the benthic signatures and develop the classification scheme. The images were scanned using a photogrammetric quality scanner (AGFA Horizon Plus) at a resolution of 600 dots per inch (dpi) resulting in a pixel resolution of 0.85 meters. The digital images were orthorectified using ERDAS Imagine 8.5 Orthobase. No camera report was available for the 1992 imagery, so the default RC-20 Wild camera settings were used. Ground control points were selected from similar features on the 1999 North Carolina USGS standard digital orthophoto quadrangles (DOQ). The DOQs are compressed JPEG files at a scale of 1:12,000 with 1-meter resolution. They were purchased from the state of North Carolina in 2002. NIMA Digital Terrain Elevation Data (DTED) level 1 coverage with a 77-meter resolution were used for the vertical data reference. The orthorectified images were interpreted and digitized on screen using ArcGIS 8.2. The benthic data is classified according to the System for Classification of Habitats in Estuarine and Marine Environments (SCHEME). This system is fully described in "Development of a System for Classification of Habitats in Estuarine and Marine Environments (SCHEME) for Florida, Report to U.S. EPA - Gulf of Mexico Program, Florida Fish and Wildlife Conservation Commission, Florida Marine Research Institute. Review Draft 12/04/02." The data was labeled using ArcView 3.2 and the Benthic Habitat Digitizer extension (developed by the NOS Biogeography Program). The data have not been assessed for thematic accuracy due to the large disparity

between dates of image acquisition in 1992 and interpretation in 2002. The data was assessed for spatial accuracy during the fall of 2002. Sources used in this processing step were the DTED, Aerial Photos, and DOQs.

- 2015-01-01 00:00:00 - The data were converted from a single ESRI polygon shapefile classified according to the System for Classifying Habitats in Estuarine and Marine Environments (SCHEME) to the Coastal and Marine Ecological Classification Standard (CMECS) 2012 format (which can be found at <https://coast.noaa.gov/digitalcoast/tools/cmecs-crosswalk>) which produces separate geoform, biotic, and biotic feature layers from the original input benthic habitat dataset. This biotic feature layer contains CMECS biotic component attributes where an "Equal" or "Nearly Equal" SCHEME value was present in the original data. Polygons for which no biotic information was present have been removed. No other changes to the original polygon boundaries or any other alterations of the original SCHEME data were made during this process.

**5.1.1. If data at different stages of the workflow, or products derived from these data, are subject to a separate data management plan, provide reference to other plan:**

**5.2. Quality control procedures employed (describe or provide URL of description):**

## **6. Data Documentation**

*The EDMC Data Documentation Procedural Directive requires that NOAA data be well documented, specifies the use of ISO 19115 and related standards for documentation of new data, and provides links to resources and tools for metadata creation and validation.*

**6.1. Does metadata comply with EDMC Data Documentation directive?**

No

**6.1.1. If metadata are non-existent or non-compliant, please explain:**

Missing/invalid information:

- 1.7. Data collection method(s)
- 3.1. Responsible Party for Data Management
- 4.1. Have resources for management of these data been identified?
- 4.2. Approximate percentage of the budget for these data devoted to data management
- 5.2. Quality control procedures employed
- 7.1. Do these data comply with the Data Access directive?
  - 7.1.1. If data are not available or has limitations, has a Waiver been filed?
  - 7.1.2. If there are limitations to data access, describe how data are protected
- 7.3. Data access methods or services offered
- 7.4. Approximate delay between data collection and dissemination
- 8.1. Actual or planned long-term data archive location
- 8.3. Approximate delay between data collection and submission to an archive

facility

- 8.4. How will the data be protected from accidental or malicious modification or deletion prior to receipt by the archive?

**6.2. Name of organization or facility providing metadata hosting:**

NMFS Office of Science and Technology

**6.2.1. If service is needed for metadata hosting, please indicate:**

**6.3. URL of metadata folder or data catalog, if known:**

<https://www.fisheries.noaa.gov/inport/item/47913>

**6.4. Process for producing and maintaining metadata**

*(describe or provide URL of description):*

Metadata produced and maintained in accordance with the NOAA Data Documentation Procedural Directive: [https://nosc.noaa.gov/EDMC/DAARWG/docs/EDMC\\_PD-Data\\_Documentation\\_v1.pdf](https://nosc.noaa.gov/EDMC/DAARWG/docs/EDMC_PD-Data_Documentation_v1.pdf)

**7. Data Access**

*NAO 212-15 states that access to environmental data may only be restricted when distribution is explicitly limited by law, regulation, policy (such as those applicable to personally identifiable information or protected critical infrastructure information or proprietary trade information) or by security requirements. The EDMC Data Access Procedural Directive contains specific guidance, recommends the use of open-standard, interoperable, non-proprietary web services, provides information about resources and tools to enable data access, and includes a Waiver to be submitted to justify any approach other than full, unrestricted public access.*

**7.1. Do these data comply with the Data Access directive?**

**7.1.1. If the data are not to be made available to the public at all, or with limitations, has a Waiver (Appendix A of Data Access directive) been filed?**

**7.1.2. If there are limitations to public data access, describe how data are protected from unauthorized access or disclosure:**

**7.2. Name of organization of facility providing data access:**

NOAA Office for Coastal Management (NOAA/OCM)

**7.2.1. If data hosting service is needed, please indicate:**

**7.2.2. URL of data access service, if known:**

[ftp://ftp.coast.noaa.gov/pub/benthic/Benthic\\_Cover\\_Data/NC\\_BogueSound.zip](ftp://ftp.coast.noaa.gov/pub/benthic/Benthic_Cover_Data/NC_BogueSound.zip)

**7.3. Data access methods or services offered:**

**7.4. Approximate delay between data collection and dissemination:**

**7.4.1. If delay is longer than latency of automated processing, indicate under what authority data access is delayed:**

**8. Data Preservation and Protection**

*The NOAA Procedure for Scientific Records Appraisal and Archive Approval describes how to identify, appraise and decide what scientific records are to be preserved in a NOAA archive.*

**8.1. Actual or planned long-term data archive location:**

*(Specify NCEI-MD, NCEI-CO, NCEI-NC, NCEI-MS, World Data Center (WDC) facility, Other, To Be Determined, Unable to Archive, or No Archiving Intended)*

**8.1.1. If World Data Center or Other, specify:**

**8.1.2. If To Be Determined, Unable to Archive or No Archiving Intended, explain:**

**8.2. Data storage facility prior to being sent to an archive facility (if any):**

Office for Coastal Management - Charleston, SC

**8.3. Approximate delay between data collection and submission to an archive facility:****8.4. How will the data be protected from accidental or malicious modification or deletion prior to receipt by the archive?**

*Discuss data back-up, disaster recovery/contingency planning, and off-site data storage relevant to the data collection*

**9. Additional Line Office or Staff Office Questions**

*Line and Staff Offices may extend this template by inserting additional questions in this section.*